

5/20

DART AEROSPACE LTD		Work Order:	23049
Description: Panel		Part Number:	D3330-2
Dwg: D3330 Rev. A <small>PAGES 2, 3</small>		Qty:	2075
Ref: RF 05.01.17		Page 1 of 1	

RF
05.01.17

Step	Location	Procedure	By	Date	Qty
1	DC	Issue Traveler <small>NOTE: D3330-2 IS SAME FLAT PATTERN AS D3330-1</small>	KJ	05.04.15	20
2	PG	Issue P/O: <u>2007923</u> Email or Ship DXF file to vendor Laser Cut flat pattern per Dwg D3330 Possible Supplier: Industrial Laser Material release note is required	Le	05.04.10	15
3	RG	Receive and Inspect for transit damage Enure material release note is attached	CL	05/05/16	15
4	QC6	Inspect dimensions as per Dwg D3330 OR D3330-1 TI TEMPLATE	MA	05/05/25	15
5	GA	Deburr	CPL	05/05/25	15
6	GB	Form as per Dwg D3330	2 CPL	05/05/26	15
7	QC5	Inspect work to Step 6	MA	05/05/26	15
8	ST	Identify and Stock	CPL	05/05/26	15
9	AC	Cost / part: <u>24.48</u>	SVC	05.05.21	15
10	DC	Close W/O <u>24.06</u> Inspect Level 21	KJ	05.06.03	15

RF
05.01.17

Rev	Date	Change	Revised By	Approved
A	05.01.13	New issue	KJ/JLM	<i>[Signature]</i>

RELEASED
05-01-17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Design Mgr	Approval QC Inspector
			Initial Design Mgr	Action Description Design Mgr	Sign & Date			

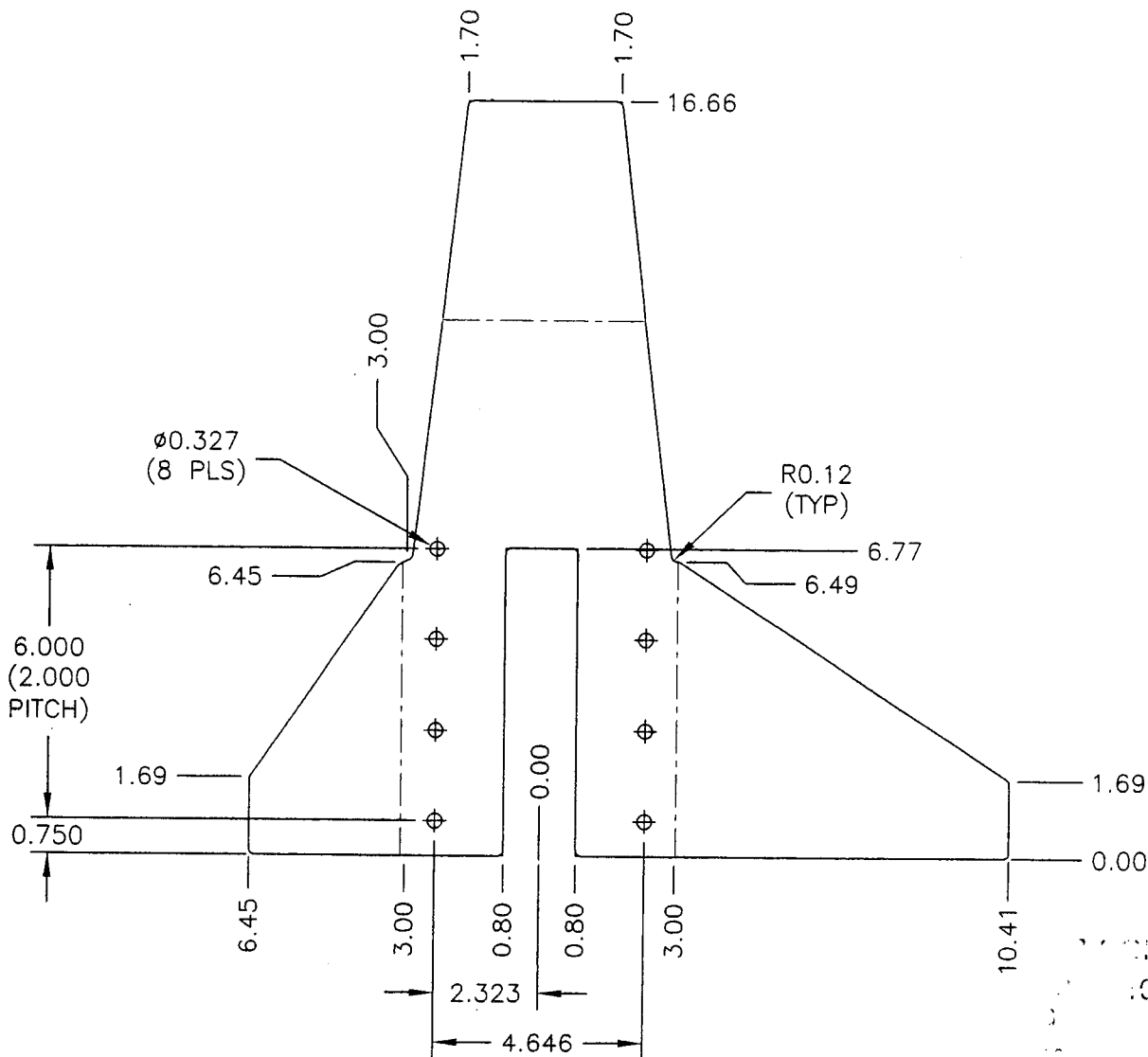
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

NOTE: Date & initial all entries

QA: N/C Closed: _____ Date: _____

DART
PRELIMINARY ISSUE

DESIGN 3	DRAWN BY 3	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED H	APPROVED	DRAWING NO. D3330	REV. B SHEET 2 OF 9
DATE 05.02.26		TITLE FRAME WELDMENT	SCALE 1:4



D3330-1 PANEL

NOTES:

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 11 GAUGE (0.125 THICK)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010

WORK ORDER

NO. 23049

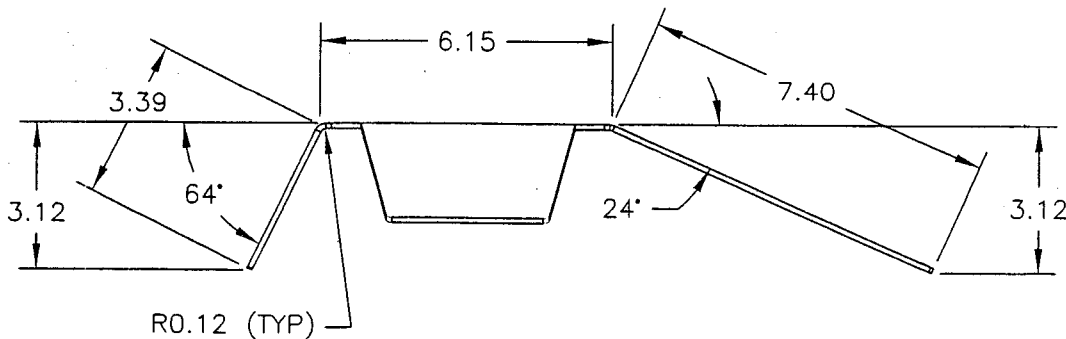
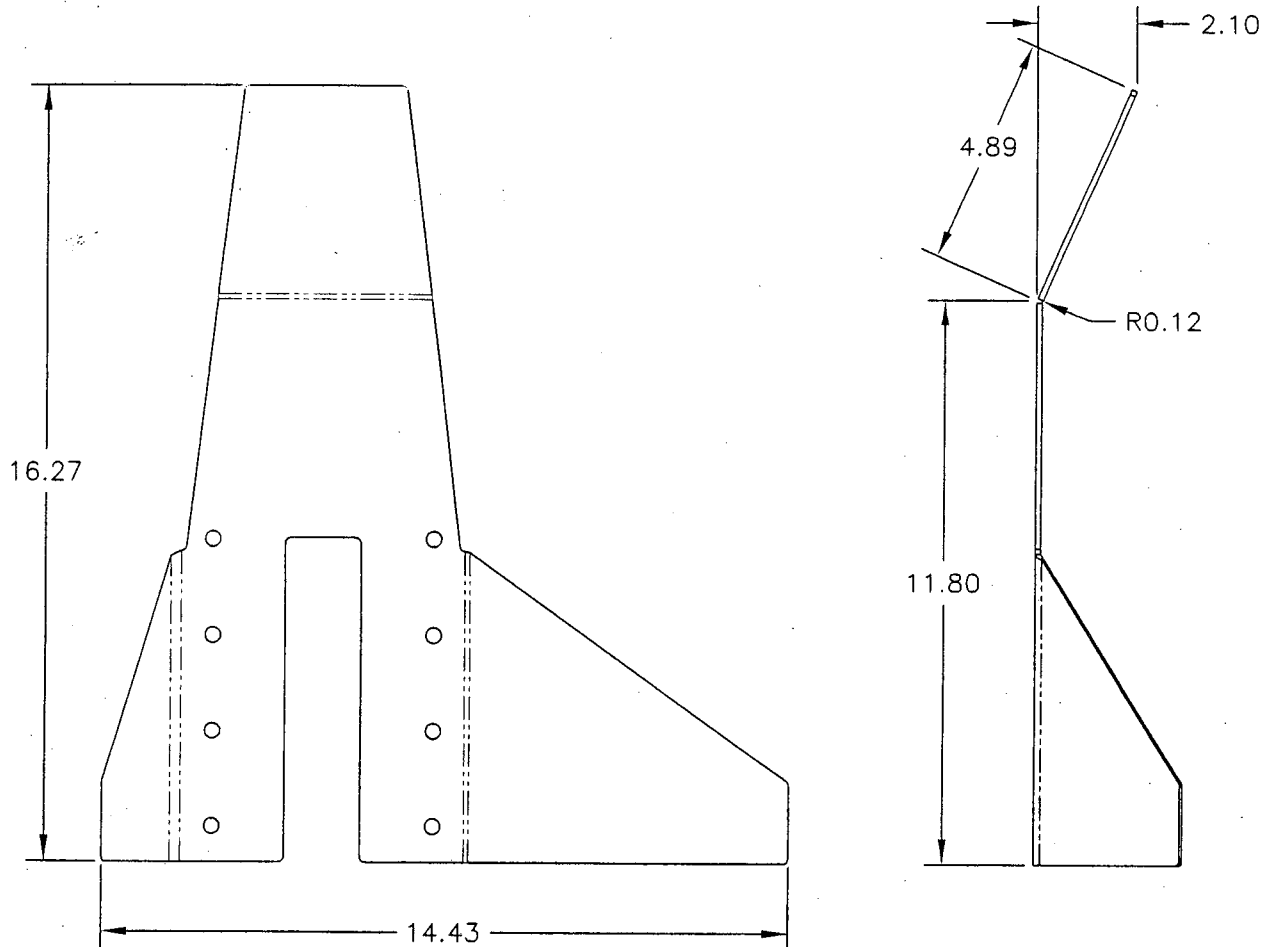
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DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED	DRAWING NO. D3330	REV. B SHEET 3 OF 9
DATE 05.02.26		TITLE FRAME WELDMENT	SCALE 1:4

PRELIMINARY ISSUE



D3330-1 BEND DETAIL (SHOWN)
BEND D3330-2 (OPPOSITE)

SHOP COPY
RETURN TO
DRAWING
FILED COPY
REVISION
NOTICE
WORK ORDER
NO. 23049

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Job Costing Report

Dart Aerospace Ltd.
Hawkesbury

Apr 12, 2005
02:25 pm

Work Order No : 0023049
Project Name : D3330-2
Project For : WK520
Work Order Type : Main
Main WO Number :
House Part Number : D3330-2
Description : Panel
Manufactured : Yes
Amount Req'd : 20
Amount Done : 0
Start Date : 04-12-05
Est Finish Date : 05-15-05
Act Finish Date :
Drawings Req'd : No
Ok for Approval :
Approval Rec'd :

Department Code:
Burden Flags : NNNNNNNN
WO Status : Open
Invoice State : Not Invoiced
Invoice Date :
Invoice Number :
Invoice Amount : 0.00
Order Entry No :
OE Value : 0.00
Est Mark Up : 0.000%
Actual Mark Up : 0.000%
\$0 Posted to Finished Goods

	Estimated	Actual	Var. %	Posted	To Post
Material Cost :	0.00	0.00	0.00	0.00	0.00
Engineering Hours :	0.00	0.00	0.00		
Engineering Cost :	0.00	0.00	0.00	0.00	0.00
Production Hours :	0.00	0.00	0.00		
Production Cost :	0.00	0.00	0.00	0.00	0.00
Packaging Hours :	0.00	0.00	0.00		
Packaging Cost :	0.00	0.00	0.00	0.00	0.00
OverHead Hours :	0.00	0.00	0.00		
OverHead Cost :	0.00	0.00	0.00	0.00	0.00
CNC Hours :	0.00	0.00	0.00		
CNC :	0.00	0.00	0.00	0.00	0.00
Misc. Hours :	0.00	0.00	0.00		
Misc. :	0.00	0.00	0.00	0.00	0.00
Burden :	0.00	0.00	0.00		
Total Cost :	0.00	0.00	0.00		
Mark up :	0.000	0.000			
Selling Cost :	0.00	0.00			

	Estimated	Actual
Labour Hrs/Amount Done :	0.00	0.00
Profits/(Loss) :	0.00	0.00



BHP New Zealand Steel Limited
Glenbrook, South Auckland
Postal: Private Bag 92121, Auckland 1, New Zealand
Telephones: (09) 3758 999 Auckland
(08) 2358 089 Waiuku
Fax: (09) 3758 959 Telex: 24936

TEST CERTIFICATE

Ref: 9852301

CUSTOMER		Wilkinson		P00821ME001										SPECIFICATION					ASTMA569					CERTIFICATE No			TC027066		
CUSTOMER O/N		90-31N-067												PRODUCT					HOT ROLLED PICKLED & OILED					PAGE			1 of 1		
MILL O/		256321												DIMENSIONS					0.119" x 48" x Coil					DATE			22 November 2000		
PACK NUMBER	HEAT No	CHEMICAL COMPOSITION PERCENT															MECHANICAL TESTS (TEST SPECIFICATION - ASTMA370)												
		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	Al	B	N2	CE()	BEND	YIELD	T.S.	%ELONG	HARDNESS	r	LENGTH					
		x100				x1000										x10000		x100		180°				G.L.=		()	(feet)		
HP-720792-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						820					
HP-720793-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						827					
HP-720794-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						817					
HP-720795-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						830					
HP-720796-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						807					
HP-720797-00	602612	6	TR	21	9	18	12	18	22	4	6	1						Good						810					

11 GA

YIELD (A)=0.2% PROOF STRESS (B)=LOWER YIELD STRESS	GAUGE LENGTH (G.L.) (A)=200mm (C)=80mm (E)=2" (B)=50mm (D)=5.65 √ So (F)=8"	PLASTIC STRAIN RATIO (r) (A)=r0 (C)=r45 (B)=r90 (D)=(r0+r90+2r45) / 4	IMPACT TEST (A)=10mm x 10mm (C)=5mm x 5mm (B)=7.5mm x (D)=2.5mm x	CARBON EQUIVALENT VALUE (CE) (A)=C+Mn/6 (C)=C+Mn/6+Si/24 (B)=C+Mn/8+(Cr+V+Mo)/5+(Cu+Ni)/15 (D)=
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WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED
WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED

Satish Misra
QC METALLURGIST